Serial No.: 10/665,541

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IN THE CLAIMS:

Please cancel claims 2 and 10 and amend claims 1, 4, 9 and 14 as

follows.

(Currently Amended) An embedment device for use in a 1.

structural panel production line wherein a slurry is transported on a moving carrier

relative to a support frame, and chopped fibers are deposited upon the slurry, said

device comprising:

a first elongate shaft secured to the support frame and having a first

plurality of axially spaced disks;

a second elongate shaft secured to the support frame and having a

second plurality of axially spaced disks;

said first shaft being disposed relative to said second shaft so that

said disks intermesh with each other, and wherein, when viewed from the side,

peripheries of said first and second pluralities of disks overlap each other.

2. (Canceled)

(Original) The device of claim 1 wherein said shafts are 3.

oriented on the frame to be generally transverse to the direction of movement of

the slurry along the production line.

4. (Currently Amended) The device of claim 3 wherein said

shafts are oriented on the frame to be generally parallel to each other and define a

plane vertically displaced from and parallel to said moving carrier.

5. (Original) The device of claim 4 wherein each said shaft

includes relatively smaller diameter spacer disks between each adjacent pair of

said first and second pluralities of disks, and peripheries of said first and second

pluralities of disks are in close proximity to corresponding peripheries of said

opposed spacer disks.

6. (Original) The device of claim 1 wherein said disks are fixed

to said corresponding elongate shafts for common rotation.

7. (Original) The device of claim 1 wherein said first plurality of

disks are disposed relative to the frame to create a first trough pattern in the slurry

for embedding the fibers therein, and said second plurality of disks are disposed

relative to the frame to create a second trough pattern in the slurry, said second

pattern being transversely offset from said first pattern.

8. (Original) The device of claim 1 wherein said shafts are

configured to rotate in the same direction.

9. (Currently Amended) An embedment device for use in embedding fibers into a settable slurry used in producing a structural board on a board production line including a support frame, said device comprising:

a first elongate support shaft secured to the frame and having a first plurality of relatively large diameter disks stacked axially along said shaft in between a first plurality of relatively small diameter disks;

a second elongate support shaft secured to the frame and having a second plurality of relatively large diameter disks stacked axially along said shaft in between a first plurality of relatively small diameter disks;

said first and second support shafts positioned relative to each other so that said first plurality of relatively large diameter disks are intermeshed with said second plurality of relatively large diameter disks;

peripheries of said first and second intermeshed pluralities of relatively large diameter disks overlap each other and are in close proximity to corresponding peripheries of said opposed relatively small diameter disks; and

said shafts being oriented on the frame to be generally parallel to each other and to define a plane vertically displaced from and parallel to a moving carrier on said frame.

10. (Canceled)

11. (Original) The device of claim 9 wherein each said large

diameter disk and said small diameter disks have a thickness, and said thicknesses

of said large diameter disks and said small diameter disks are approximately the

same.

12. (Original) The device of claim 9 wherein said shafts are

oriented on the frame to be generally transverse to the direction of movement of

the slurry along the production line and are generally parallel to each other.

13. (Original) The device of claim 9 wherein said disks are fixed

to said corresponding elongate shafts for common rotation.

14. (Currently Amended) An embedment device for use in

embedding fibers into a settable slurry used in producing a structural board on a

board production line including a support frame, said device comprising:

a first elongate support shaft secured to the frame and having a first

plurality of relatively large diameter disks stacked axially along said shaft in

between a first plurality of relatively small diameter disks;

a second elongate support shaft secured to the frame and having a

second plurality of relatively large diameter disks stacked axially along said shaft

in between a first plurality of relatively small diameter disks;

said first and second support shafts positioned relative to each other so that said first plurality of relatively large diameter disks are intermeshed with said second plurality of relatively large diameter disks;—and

each of said first plurality of relatively large diameter disks overlapping a corresponding one of said second plurality of relatively large diameter disks approximately the length of a radius of said large diameter disks;

peripheries of said first and second pluralities of relatively large diameter disks being in close proximity to corresponding peripheries of said opposed relatively small diameter disks;

said shafts being oriented on the frame to be generally parallel to each other and to define a plane vertically displaced from and parallel to said board production line;

said first plurality of relatively large diameter disks being disposed relative to the frame to create a first trough pattern in the slurry for embedding the fibers therein, and said second plurality of relatively large diameter disks being disposed relative to the frame to create a second trough pattern in the slurry, said second trough pattern being transversely offset from said first pattern; and

said first and second shafts, and said associated disks, rotate in the same direction.